HYPOTHETICAL WORK PLAN PROJECT

1. INTRODUCTION

As part of the new Professional Services Contract (PSC), a hypothetical future Rest of River work scenario is presented. The intent is to provide an opportunity for the Offeror to demonstrate their technical understanding via a technical/organizational approach along with company and Team experience/technical capabilities, in performing such an undertaking. The reason to do this is so the offeror can provide adequate oversight and technical assistance. For the purpose of this future RoR work scenario the Offeror shall assume that they are preparing work plan(s) for the remediation of a 0.5 mile section of the Housatonic River and adjacent floodplain in the Rest of River, beginning approximately 1.2 Miles south of New Lenox Road in Lenox, MA at Holmes Road Bridge (the "Reach") as depicted on the attached Figures 1 and 2. This includes Reach 5C of the River and encompasses the sediment, bank and floodplain exposure areas 46, 47, 48 and 50. (See Figure 3 taken from the 2016 Final permit Modification for EAs/Reach location). Also attached is a figure locating the Core Habitat Areas for consideration in the effort. The Offeror is to assume a staging area will be constructed at or near the location of the Mountain View Cemetery in Lenox, MA. The Offeror shall provide (in 30 pages or less, in no smaller than 12-point font, single spaced, with 1-inch margins) a conceptual overview of the work plan strategy and process that they would follow to address the unique site conditions and circumstances that would be encountered in developing the remediation of this Reach. This submittal should include, at a minimum, the following:

- Describe Project Team staffing plan & management structure (including the use of Key Personnel);
- List of Pre-work plan requirements;
- Describe the approach and requirements for river bed and bank excavation;
- Describe the approach and requirements for floodplain and backwater excavation;
- Describe the approach to the engineered cap design;
- Provide a project schedule with a work breakdown structure including the necessary tasks and milestones; the sequencing of activities;
- List and describe the monitoring requirements;
- Describe the approach and list the requirements for the restoration of impacted areas;
- Describe the approach and list the requirements for materials handling and disposal;
- Describe the approach to minimize impacts to the local community;
- Describe the requirements for the preparation of materials for off-site disposal; and
- Identify the five greatest challenges to be addressed in this work plan remediation approach.

Under this hypothetical task, pricing information is not solicited.

The preparation of this submittal requires some information not provided here, because typically these data would be available in other reports. The Offeror shall make reasonable and relevant assumptions regarding these data for purposes of preparing the proposal. Useful information may be found in GE's Revised Corrective Measures Study (October, 2010), EPA Region 1 Supplemental Information Package provided to the National Remedy Review Board (June, 2011) and the Regional Response to the National Remedy Review Board (August, 2012), FINAL PERMIT MODIFICATIONS TO THE REISSUED RCRA PERMIT AND SELECTION OF CERCLA REMEDIAL ACTION (RA) AND OPERATION AND MAINTENANCE (O&M) FOR REST OF RIVER (2016), as well as other information listed under Rest of River on the web at https://semspub.epa.gov/src/collection/01/SC31234

2. SAMPLE PROJECT BACKGROUND AND HISTORY

General RoR background and history is described in Section C of the RFP.

3. SITE INFORMATION

3.1 Site Description

This Reach is located within an area with some residential development, but that is predominantly undeveloped and used for recreation. In this Reach, the river is narrow and flow is flashy, and includes some eroding contaminated river banks and a large floodplain comprised of many different wetland types. This Reach provides priority habitat for a number of state-listed species regulated under the Massachusetts Endangered Species Act, as well as habitat for a great variety of wildlife species.

3.2 Extent of Contamination

The contamination in this Reach consists of PCB-contaminated river and backwater sediment and floodplain and bank soil. PCB concentrations range up to nearly 400 mg/kg in river bed sediment, but are generally less than 100 mg/kg. PCB concentrations in floodplain soil are typically less than 100 mg/kg.

4.0 REMEDIAL ACTION

The remedial action for this Reach should be assumed to consist of the following:

- The entire river bed in the Reach will be remediated.
- Remediation of river and backwater sediment and bank soil by excavation to a depth sufficient to place an engineered cap. Excavation will generally be performed from equipment placed within the river.

- Contaminated eroding banks (defined as those banks with a BANCS model value of moderate-high or greater and PCB concentrations greater than 5 mg/kg) will be remediated.

- Backwater sediment will be remediated to achieve a residual spatially weighted average PCB concentration of 1 mg/kg in each backwater. Areas of a backwater that fall within Core Area 1 will be avoided, except for discrete areas that exceed 50 mg/kg which will be removed. The use of an additive such as activated carbon will be considered in areas within Core Area 1 with sediment concentrations between 1 and 50 mg/kg.

- Following remediation, an engineered cap will be placed on the excavated areas of river bed and backwaters, and banks. The engineered cap will be developed to physically isolate residual contaminated sediment from potential human and ecological receptors and minimize the transport of PCBs from the sediment beneath the cap to the bioavailable surface layer and water column.

- Floodplain soil in the 0-1 foot interval in the adjacent exposure areas (or 0-3 foot interval in Frequently Used Subareas) will be remediated to achieve a human health risk level of 10-5 or a Hazard Index = 1, except when avoidance of excavation in Core Area 1 habitat (see Figure 3) is required, in which case residual risk will be at or below 10^{-4} or a Hazard Index = 1.

- Vernal pool soil greater than 3.3 mg/kg will be remediated, with the placement of activated carbon, except for those that occur within a Core Area 1 habitat.

- Contaminated material will be disposed of by rail off-site in a licensed facility.

Figure 1

Rest of River

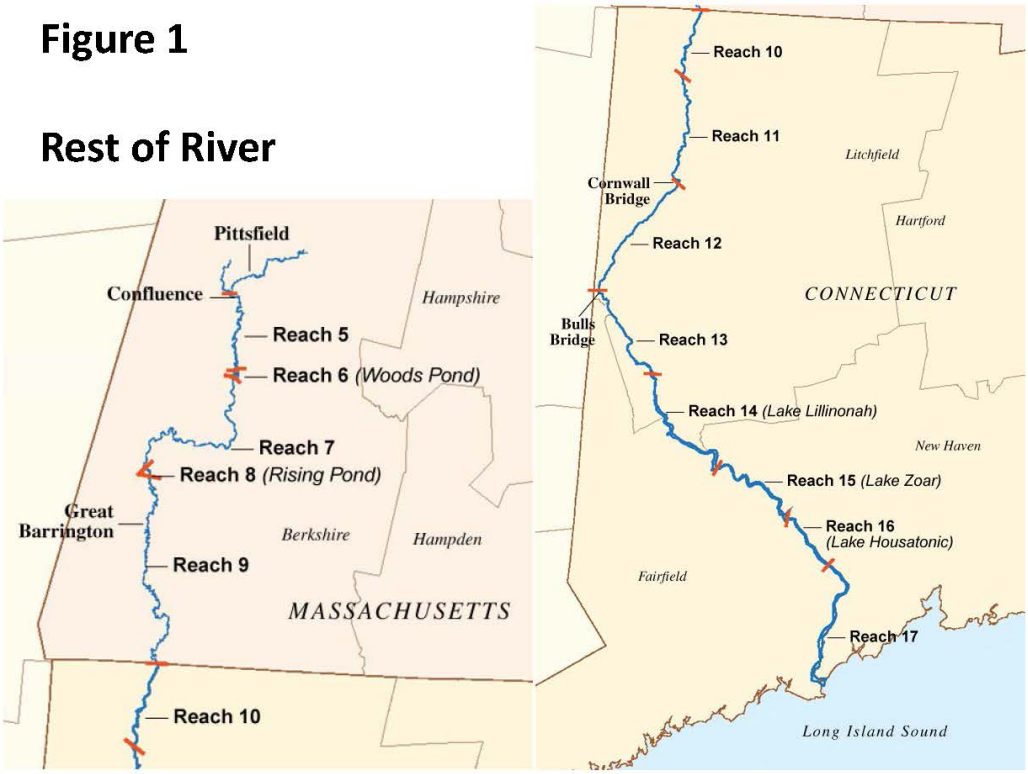
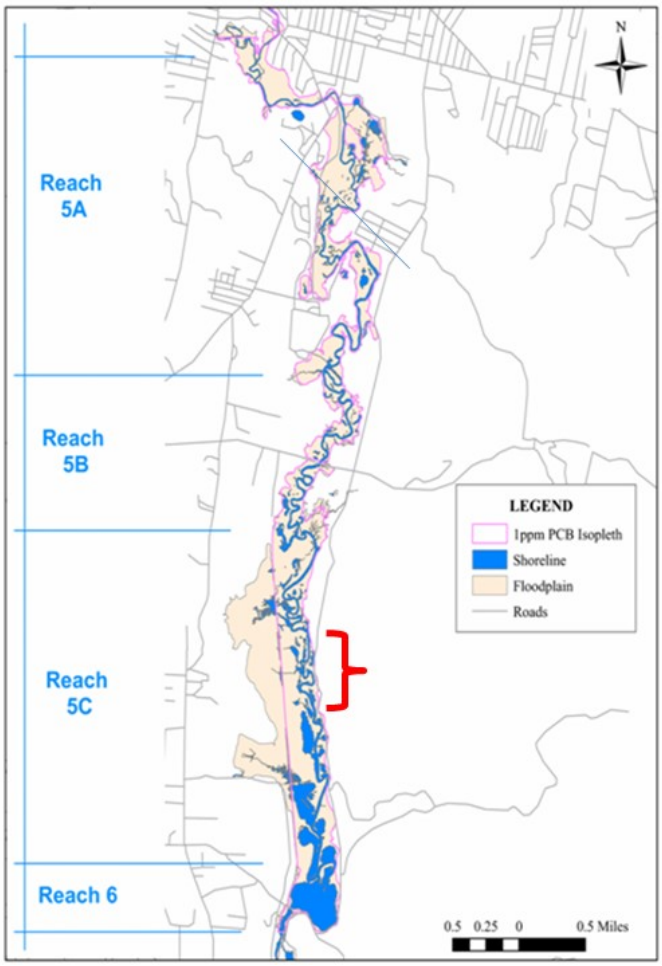
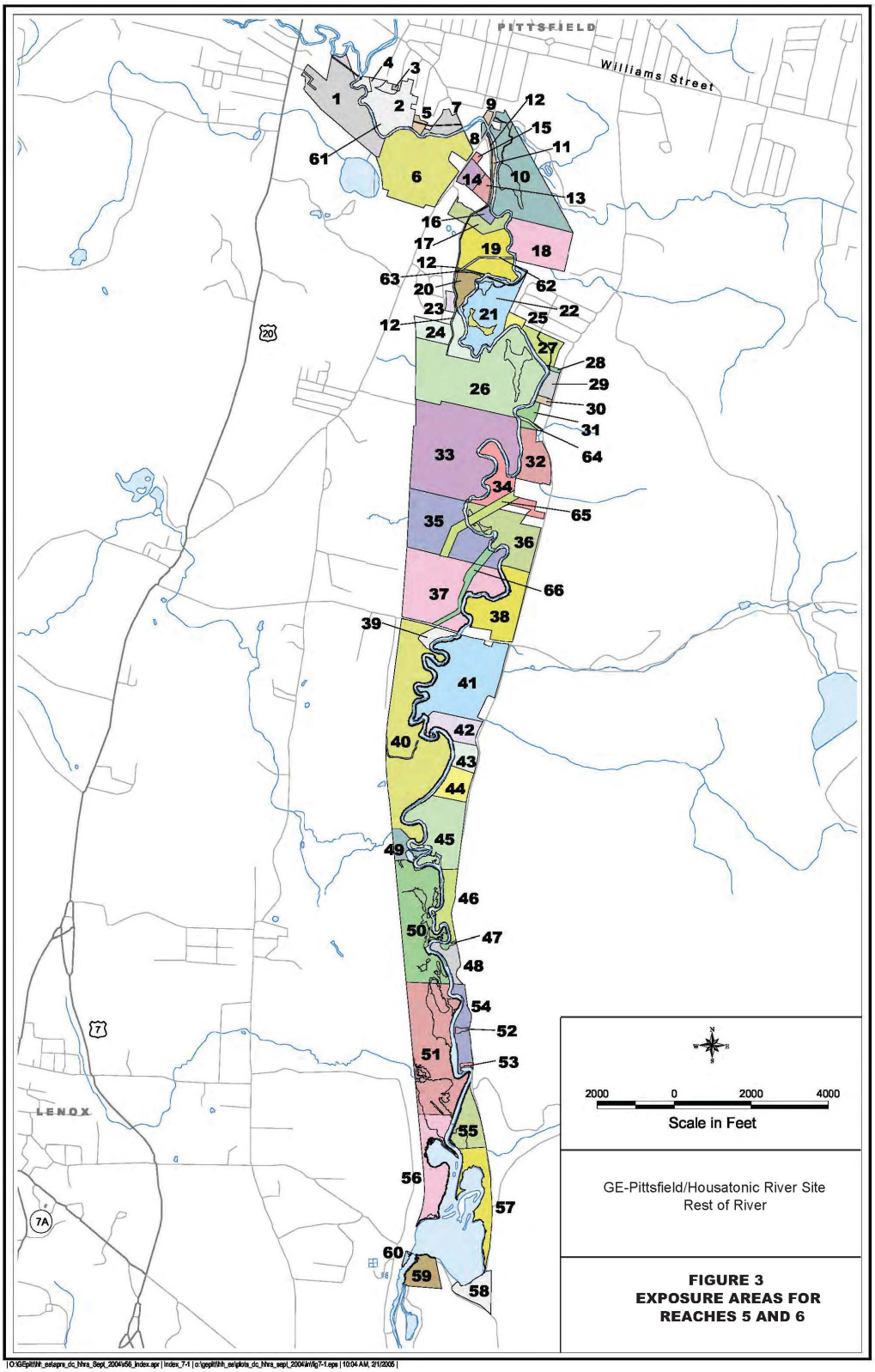


Figure 2

Sample Project Area (approximate)




PITTSFIELD
Williams Street
LENOX
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7
7A
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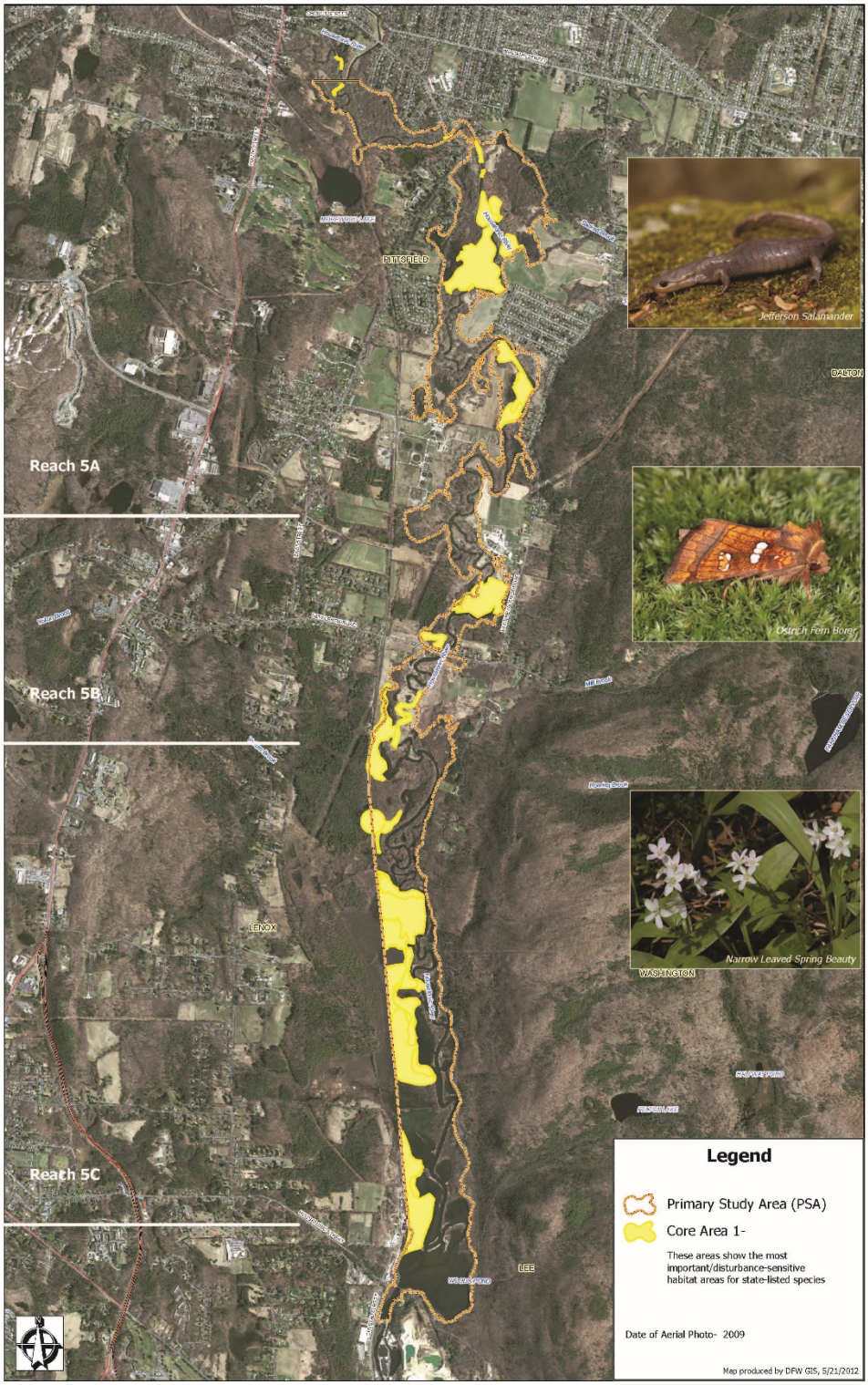
57
58
59
60
61
62
63
64
65
66
2000
0
2000
4000
Scale in Feet
GE-Pittsfield/Housatonic River Site
Rest of River
FIGURE 3
EXPOSURE AREAS FOR
REACHES 5 AND 6



Core Habitat Areas
Housatonic River Primary Study Area (PSA)